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मानक

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“जानने का अधिकार, जीने का अधिकार”

Mazdoor Kisan Shakti Sangathan

“The Right to Information, The Right to Live”

“पुराने को छोड़ नये के तरफ”

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IS 10677 (1983): Rongeur, Intervertebral Disk [MHD 7: Neurosurgery Instruments Implants and Accessories]



“ज्ञान से एक नये भारत का निर्माण”

Satyanarayan Gangaram Pitroda

“Invent a New India Using Knowledge”



“ज्ञान एक ऐसा खजाना है जो कभी चुराया नहीं जा सकता है”

Bhartrhari—Nitiśatakam

“Knowledge is such a treasure which cannot be stolen”

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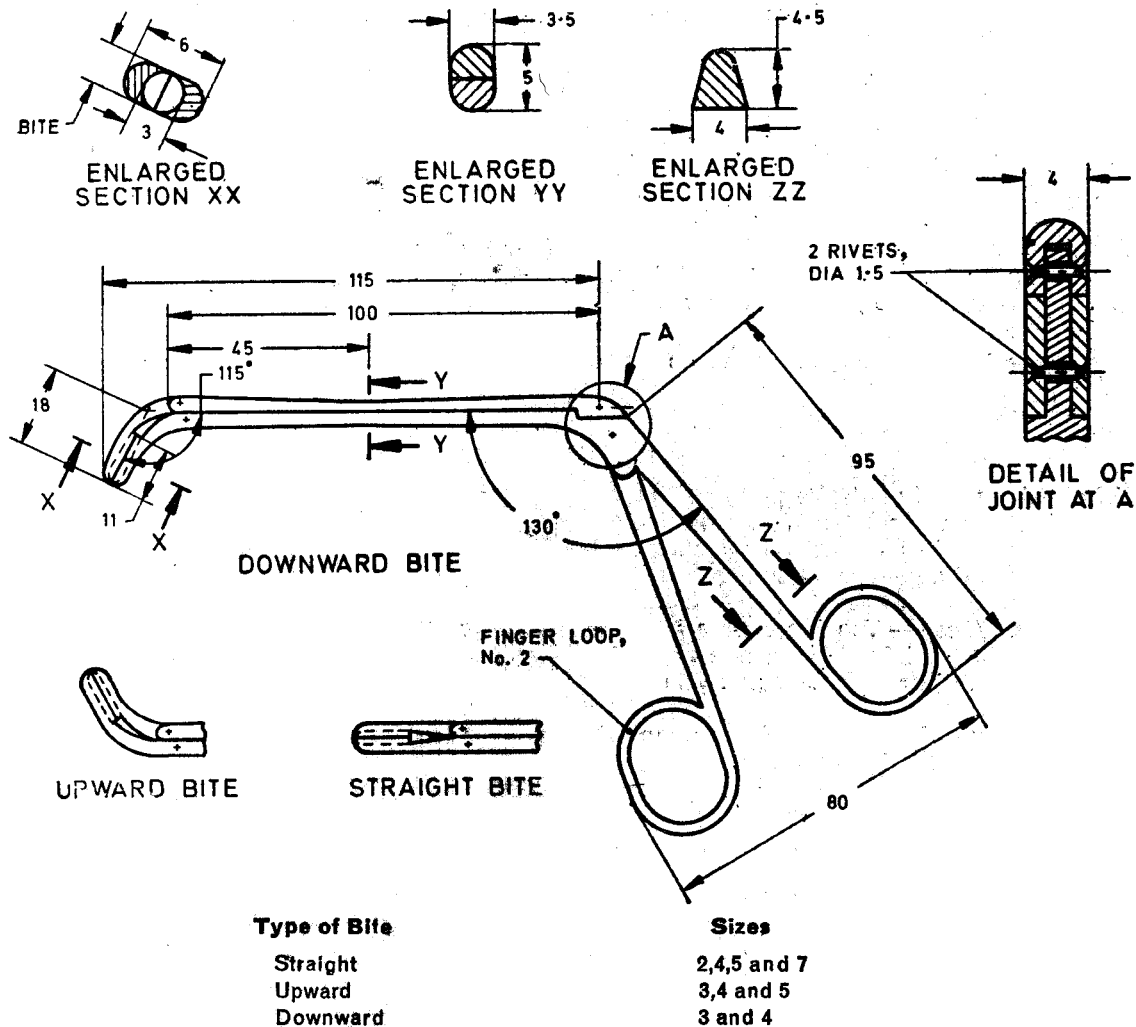




Indian Standard

SPECIFICATION FOR
RONGEUR, INTERVERTEBRAL DISC

1. **Scope** — Material, dimensional and other requirements for intervertebral disc rongeurs with bite, angled upwards or straight or angled downwards, used in neurosurgery.
2. **Shape and Dimensions** — As shown in Fig. 1.



*See IS : 3642 - 1978 General requirements for surgical instrument (first revision).

All dimensions in millimetres.

FIG. 1 RONGEUR, INTERVERTEBRAL DISC

- 2.1 Tolerances on linear dimensions shall be permitted as given below:
- a) ± 0.1 mm on dimensions up to 2.0 mm;
 - b) ± 0.2 mm on dimensions above 2.0 mm and up to 5.0 mm;
 - c) ± 0.5 mm on dimensions above 5.0 mm and up to 10.0 mm;
 - d) ± 1.0 mm on dimensions above 10.0 mm and up to 50.0 mm;
 - e) ± 1.5 mm on dimensions above 50.0 mm and up to 100.0 mm; and
 - f) ± 2.0 mm on dimensions above 100.0 mm.

IS : 10677 - 1983

2.2 Tolerance on angular dimension shall be $\pm 1^\circ$.

3. Material -The rongeurs shall be made of stainless steel conforming to Designation 30Cr13 of IS : 6603-1972 ' Specification for stainless steel bars and flats '.

4. Workmanship and Finish

4.1 The rongeurs shall be free from scales, cracks, burrs, pits, tool marks and other surface defects.

4.2 All the edges shall be smoothly rounded off except the working end which shall be sharp,

4.3 The jaws shall open and close fully and freely without any stiffness.

4.4 The maximum opening of the jaws shall correspond to the maximum opening of the finger loops.

4.5 When the jaws are closed, the cutting edges shall meet evenly.

4.6 The finger loops of the rongeurs shall conform to 11 of IS : 3642 - 1978 ' General requirements for surgical instruments (*first revision*) '.

4.7 The rongeurs shall be finished smooth, passivated and polished bright.

4.7.1 The instrument shall be treated in 10 percent (v/v) nitric acid solution for not less than 30 minutes at a temperature of not less than 10°C and not exceeding 60°C . It shall then be rinsed in water, dried in hot air and the joint lightly lubricated with a non-toxic and non-corrosive substance.

5. Heat Treatment -The rongeurs shall be hardened and tempered to give a hardness of 540 HV to 640 HV .

6. Tests

6.1 *Elasticity* — A force of moderate degree shall be applied by the fingers to the shank attempting to bend the shank along the width. This shall be repeated at several points along the shank. The test shall then be repeated in an opposite direction to the first one. On completion of the test, the shank shall not have acquired a permanent set.

6.2 *Corrosion Resistance* — The rongeurs shall be subjected to boiling and autoclaving test specified in IS : 7531-1975 ' Method for boiling and autoclaving test for corrosion resistance of stainless steel surgical instruments '. There shall be no sign of corrosion after the test.

6.3 *Performance Test* — The jaws of the rongeurs shall be made to bite the free edge of a double layer of wet blotting paper. The jaws shall leave a clear impression on the blotting paper.

7. Marking — The rongeurs shall be legibly and indelibly marked with the manufacturer's name, initials or recognized trade-mark, the country of manufacture and the words ' Stainless Steel '.

7.1 *ISI Certification Marking* — Details available with the Indian Standards Institution.

8. Packing -The rongeurs shall be wrapped in a moisture proof paper packed in a polyethylene bag. Each rongeurs shall be packed in an individual carton. The instrument may also be packed as agreed to between the purchaser and the supplier.